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| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 09 | CA/CAplus records now contain indexing from 1907 to the present |
| NEWS | 4 | AUG 05 | New pricing for EUROPATFULL and PCTFULL effective August 1, 2003 |
| NEWS | 5 | AUG 13 | Field Availability (/FA) field enhanced in BEILSTEIN |
| NEWS | 6 | AUG 18 | Data available for download as a PDF in RDISCLOSURE |
| NEWS | 7 | AUG 18 | Simultaneous left and right truncation added to PASCAL |
| NEWS | 8 | AUG 18 | FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation |
| NEWS | 9 | AUG 18 | Simultaneous left and right truncation added to ANABSTR |
| NEWS | 10 | SEP 22 | DIPPR file reloaded |
| NEWS | 11 | SEP 25 | INPADOC: Legal Status data to be reloaded |
| NEWS | 12 | SEP 29 | DISSABS now available on STN |
| NEWS | 13 | OCT 10 | PCTFULL: Two new display fields added |
| NEWS | 14 | OCT 21 | BIOSIS file reloaded and enhanced |
| NEWS | 15 | OCT 28 | BIOSIS file segment of TOXCENTER reloaded and enhanced |
| NEWS | 16 | NOV 24 | MSDS-CCOHS file reloaded |

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|---|---|
| NEWS EXPRESS | NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003 |
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FILE COVERS 1907 - 29 Nov 2003 VOL 139 ISS 23
FILE LAST UPDATED: 28 Nov 2003 (20031128/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s fluorocarbon
L1       12807 FLUOROCARBON

=> s nutrient
L2       95991 NUTRIENT

=> s l1 ans l2
MISSING OPERATOR L1 ANS
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l1 and l2
L3          12 L1 AND L2

=> d l3 -12 ibib hitstr abs

L3   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:         2003:241986  CAPLUS
DOCUMENT NUMBER:          138:243385
TITLE:                    Kits and compositions containing amino acids for
                          intracranial perfusions
INVENTOR(S):              Hesson, David P.; Frazer, Glenn David; Pelura, Timothy
                          J.
PATENT ASSIGNEE(S):       Neuron Therapeutics, Inc., USA
SOURCE:                   U.S. Pat. Appl. Publ., 16 pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:
```

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 2003060421 | A1 | 20030327 | US 2001-908985 | 20010719 |

PRIORITY APPLN. INFO.: US 2001-908985 20010719

AB A kit is provided contg. pre-measured amts. of components to form a **fluorocarbon nutrient** emulsion capable of carrying oxygen to living tissues. The kit comprises constituent solns., emulsions or particle compns., which are the constituent compns. contg. pre-measured amts. of components for making the **fluorocarbon nutrient** emulsion. The constituent compns. contain polyfluorinated, oxygen-carrying compd., an emulsifying agent effective to emulsify the polymer; a **nutrient**-providing effective amts. of carbohydrates, amino acids or amino acid precursors, an oncotic agent in conjunction with the other components of the soln., and sufficient salts and buffering agents to provide a physiol. osmotic pressure and appropriate concns. of potassium and sodium ions. The constituent compns. are selected to allow for sufficient stability of the components to allow for com. marketing of the kit. The constituent compns. are adapted to provide a **fluorocarbon nutrient** emulsion with the following component amts.: poly-fluorinated, oxygen-carrying compd. 9.5-10-5, phospholipid 11.5 mg/mL, albumin, 1.67 g/dL, .alpha.-ketoglutaric acid 25 .mu.g/mL, amino acids composed of L-isoleucine + L-leucine 17.5, L-valine 16.6, L-alanine 28.6, L-serine 24.6, L-histidine 10.3, L-methionine 2.1, L-phenylalanine + L-Lysine 35.3, L-threonine + L-arginine 48.3 and L-tyrosine 7.9 .mu.g/mL, Na+ 147, K+ 2.9, Cl- 130, Ca+2 1.15, Mg+2 1.12 1.12 mM, and dextrose 94 mg/dL.

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:12216 CAPLUS
DOCUMENT NUMBER: 130:71307
TITLE: Cosmetic skin or hair care compositions containing perfluorocarbons infused with carbon dioxide
INVENTOR(S): Penska, Christine; Santhanam, Uma; Habif, Stephan
PATENT ASSIGNEE(S): Chesebrough-Pond's USA Co., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5851544 | A | 19981222 | US 1997-993294 | 19971218 |
| JP 11228382 | A2 | 19990824 | JP 1998-342956 | 19981202 |
| EP 938890 | A2 | 19990901 | EP 1998-309869 | 19981202 |
| EP 938890 | A3 | 20010704 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| ZA 9811274 | A | 20000609 | ZA 1998-11274 | 19981209 |
| CN 1231173 | A | 19991013 | CN 1998-126971 | 19981218 |

PRIORITY APPLN. INFO.: US 1997-993294 A 19971218

AB Cosmetic skin or hair care compns. contg. a liq., inert, hydrophobic **fluorocarbon** infused with carbon dioxide. The compns. increase blood flow to the skin, thus increasing endogenous oxygen and **nutrient** delivery to the skin. An oil-in-water cream contained perfluorodecalin infused with carbon dioxide 0.15, mineral oil 4, Brij-56

with FC-43 emulsion (a com. perfluorocarbon artificial blood) for 1 h before and after a 24-h hypothermic electrolyte perfusion. The perfused heart exhibited excellent ventricular contractility under normothermic conditions after 24 h, and showed very little damage or edema.

L3 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1988:92085 CAPLUS
DOCUMENT NUMBER: 108:92085
TITLE: Physiological regulation of transepithelial impedance in the intestinal mucosa of rats and hamsters
AUTHOR(S): Pappenheimer, J. R.
CORPORATE SOURCE: Dep. Physiol. Biophys., Harvard Med. Sch., Boston, MA, 02115, USA
SOURCE: Journal of Membrane Biology (1987), 100(2), 137-48
CODEN: JMBBBO; ISSN: 0022-2631
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Isolated small intestinal segments from rats or hamsters were recirculated with balanced salt solns. contg. **fluorocarbon** emulsion. The lumen contained an axial Ag-AgCl electrode, and the serosal surface was surrounded by a cylindrical shell of Ag-AgCl. Transmural impedances were measured at frequencies of 0.01-30 kHz before and after removal of the mucosal epithelium. The resistance of intercellular junctions, RJ, the distributed resistance of the lateral spaces, RL, and the distributed membrane capacitance, CM, were computed from the relations between frequency and impedance. Activation of Na+-coupled solute transport by addn. of glucose (I), 3-O-Me glucose, alanine, or leucine caused 2-3-fold decreases of transepithelial impedance. Typical changes induced by I in hamster small intestine were RJ 30 .OMEGA. to 13 .OMEGA., Rl 23 .OMEGA. to 10 .OMEGA., and CM 8 .mu.F to 20 .mu.F (per cm length of segment). The half-maximal response occurred at a I concn. of 2-3 mM. The area per unit path length of the junctions (Ap/.DELTA.x = specific resistance .div. RJ) in I-activated epithelium was 3.7 cm in the hamster midgut and 6.8 cm in the rat. These values are close to the 4.3 cm estd. independently from coeffs. of solvent drag and hydrodynamic conductance in I-activated rat intestine in vivo. The transepithelial impedance response to Na+-coupled solute transport was reversibly dependent on O tension. Apparently, activation of Na+-coupled solute transport triggers contraction of circumferential actomyosin fibers in the terminal web of the microvillar cytoskeletal system, thereby pulling apart junctions and allowing paracellular absorption of nutrients by solvent drag as described previously.

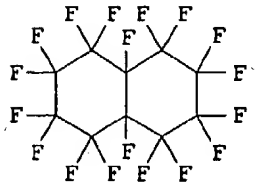
L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:634773 CAPLUS
DOCUMENT NUMBER: 107:234773
TITLE: Improved cell culture chamber
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: Research Disclosure (1987), 279, 433
CODEN: RSDSBB; ISSN: 0374-4353
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An improved cell culture chamber is described that is constructed of thin films of a suitable plastic that is heat sealable, permeable to oxygen and carbon dioxide for the cell line, relatively impermeable to liqs., nontoxic to the cells and preferably transparent. One or both of the

inner or contacting surfaces of the film(s) forming the chamber are deblocked to reduce their tendency to stick together. Deblocking is accomplished by dusting one or both of the contacting film surfaces with a finely granulated dry powder to prevent intimate contact of the smooth polymer films. Alternatively, the powder may be suspended in a suitable **fluorocarbon** propellant, such as Freon 113A, and sprayed on the desired film surface. The powder used should be sol. in the **nutrient** media and should not be toxic to the cells nor cause significant alteration of the growth characteristics of the cells. Thus used, the deblocking agent, after it has performed its deblocking function, simply dissolves in the **nutrient** when it is added.

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:137845 CAPLUS
DOCUMENT NUMBER: 102:137845
TITLE: Inhibiting the absorption of nutrients with perfluorodecalin
INVENTOR(S): Niazi, Sarfaraz
PATENT ASSIGNEE(S): Farmacon Research Corp., USA
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 132098 | A2 | 19850123 | EP 1984-304673 | 19840709 |
| EP 132098 | A3 | 19860129 | | |
| R: DE, FR, GB, IT | | | | |
| US 4530936 | A | 19850723 | US 1983-512193 | 19830708 |
| AU 8430397 | A1 | 19860911 | AU 1984-30397 | 19840709 |
| AU 570987 | B2 | 19880331 | | |

PRIORITY APPLN. INFO.: US 1983-512193 19830708
GI



I

AB The absorption of nutrients in the intestine is inhibited or prevented by ingesting perfluorodecalin (I) [306-94-5] to form an impermeable film on a substantial part of the upper intestine wall. An emulsion for oral administration contains I 70, Pluronic F-68 4.7, egg yolk phospholipids 0.4, and flavoring, sweetener, color, and H2O to 100% (wt./vol.). The I coating is temporary, and a dose of 5 mL with or just after the ingestion of food is active long enough to alter intestine absorption. Rats fed a diet contg. 7% I for 21 days had significant lower wts. than controls.

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1982:100292 CAPLUS
DOCUMENT NUMBER: 96:100292
TITLE: Cultivation of cells on liquid **fluorocarbon** substrates
AUTHOR(S): Arkhipov, V. V.
CORPORATE SOURCE: Inst. Biol. Fiz., Pushchino, USSR
SOURCE: Perftorirovannye Uglerody Biol. Med. (1980), 98-100. Editor(s): Beloyartsev, F. F. Akad. Nauk SSSR, Nauchn. Tsentr Biol. Issled.: Pushchino, USSR. CODEN: 47DSA2
DOCUMENT TYPE: Conference
LANGUAGE: Russian
AB Isolated neurons of Lymnaea stagnalis, Syrian hamster fibroblasts, and lymphoid cells were successfully grown in culture at a **nutrient** medium-organoperfluorocarbon (OPFC) interface. OPFC were low in toxicity, ensured the O supply to the cell, and increased the buffer capacity in the cell-liq. substrate contact region due to the soly. of CO2 in the OPFC. OPFC compds. differ in their adhesive properties. On highly adhesive OPFCs, BHK-21 fibroblasts grew as monolayers, on less adhesive OPFCs the cells formed aggregates, and on non-adhesive OPFCs the majority of cells neither spread nor multiplied, although they remained viable for >3 h. Spreading was also a function of seeding d. OPFC dispersions may permit high-d. cultivation of animal cells.

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1979:571577 CAPLUS
DOCUMENT NUMBER: 91:171577
TITLE: Means for stimulating microbial growth
INVENTOR(S): Hertl, William; Ramsey, William S.
PATENT ASSIGNEE(S): Corning Glass Works, USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4166006 | A | 19790828 | US 1977-850222 | 19771110 |

PRIORITY APPLN. INFO.: US 1977-850222 19771110
AB The addn. of a peroxide compd., preferably H2O2, to **fluorocarbon** and silicon oil greases or gels to enhance the growth of aerobic and facultative anaerobic microorganisms in liq. or solid **nutrient** media is described. E.g., a grease contg. 100 g silicone oil, 16 g powd. silica and 30% aq. H2O2 (3% by vol.) was deposited in .apprx.5 mL amts. in tubes and .apprx.1 mL of the same grease, but without H2O2 was placed on top of the grease samples in the tubes. Control samples contg. only silicone grease and no added grease were also prepd. Ten mL of **nutrient** broth contg. Escherichia coli were added to each tube and the resultant composite was incubated at 37.degree.. Optical d. of the grease + H2O2 + **nutrient** medium was 0.250 at 420 nm whereas that for oxygenated grease + **nutrient** medium was 0.150 and that for the control sample was 0.118.

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

4, Alfol-16RD 4, triethanolamine 0.75, butane-1,3-diol 3, xanthan gum 0.3, perfume qs, BHT 0.01 and water to 100% by wt.
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:398033 CAPLUS
DOCUMENT NUMBER: 127:49922
TITLE: Rhizosphere soil-water collection by immiscible displacement-centrifugation technique
AUTHOR(S): Gollany, H. T.; Bloom, P. R.; Schumacher, T. E.
CORPORATE SOURCE: Dep. of Soil, Water, and Climate, Univ. of Minnesota, St. Paul, MN, 55108, USA
SOURCE: Plant and Soil (1997), 188(1), 59-64
CODEN: PLSOA2; ISSN: 0032-079X
PUBLISHER: Kluwer
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Progress in detg. **nutrient** availability in the rhizosphere is restricted by a lack of reliable and convenient methods for rhizosphere soil-water collection. A modified centrifugation method with a **fluorocarbon** (Fluorinert FC-70) as an immiscible displacement liq. was developed. The objectives were to: (i) obtain an adequate soil-water vol. from a small rhizosphere sample within a reasonable time; (ii) collect rhizosphere soil-water at container capacity (.apprxeq.90% of field capacity) to det. sol. soil ions; and (iii) evaluate FC-70 as an extractant. The soil used was a Beadle clay loam (fine, montmorillonitic mesic Typic Argiustoll) with low and high levels of CaCO3 (5 and 204 g kg-1). Soil samples from the rhizosphere of 30-days-old sordan sorghum (Sorghum bicolor L.), sudan grass (Sorghum sudanense L.) hybrid seedlings were thin-sectioned at 1-, 2- and 3-mm from the root surface. The extn. parameters (sample size, vol. of extractant, relative centrifugal force and centrifugation time) were varied to det. optimal values. The authors obtained adequate amts. of aq. solns. from moist soil (.apprxeq.6 g) when mixed with 2 mL FC-70, packed into a filter unit, and centrifuged for 1 h at 14,500 .times. g. The displaced soil-water was analyzed by inductively coupled plasma spectrometry. The modified centrifugation technique with FC-70 offers a reliable, rapid, safe, and contamination-free method for obtaining unaltered soil-water from the rhizosphere, at a moisture content normally found in soil.

L3 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:435751 CAPLUS
DOCUMENT NUMBER: 115:35751
TITLE: Oxygenated **fluorocarbon nutrient** solution
INVENTOR(S): Osterholm, Jewell L.; Frazer, Glenn D.
PATENT ASSIGNEE(S): Thomas Jefferson University, USA
SOURCE: U.S., 9 pp. Cont.-in-part of U.S. 4,840,617.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| US 4981691 | A | 19910101 | US 1989-333658 | 19890405 |
| US 4378797 | A | 19830405 | US 1980-139886 | 19800414 |
| AT 16243 | E | 19851115 | AT 1981-102543 | 19810403 |
| US 4445500 | A | 19840501 | US 1982-428850 | 19820930 |
| US 4758431 | A | 19880719 | US 1982-428900 | 19820930 |
| US 4830849 | A | 19890516 | US 1988-183536 | 19880414 |

PRIORITY APPLN. INFO.:

| | |
|---|---|
| US 1980-139886 | 19800414 |
| US 1982-354346 | 19820303 |
| US 1982-428850 | 19820930 |
| US 1982-428900 | 19820930 |
| US 1984-582961 | 19840223 |
| US 1988-183536 | 19880414 |
| US 1988-238982 | 19880824 |
| EP 1981-102543 | 19810403 |
| US 1981-275116 | 19810618 |
| US 1981-275117 | 19810618 |
| US 1986-925727 | 19861030 |

AB An oxygenated **nutrient** soln. for circulation through cerebrospinal fluid pathways in treatment of hypoxic ischemic neurol. tissue comprises a **fluorocarbon** emulsified in a synthetic cerebrospinal aq. fluid contg. electrolytes, lecithin, and amino acids. The tissues treated with the oxygenated soln. exhibit a substantially improved ability to resist and/or repair damage which would otherwise result from vascular occlusion. Thus, an emulsion contg. bis(perfluorobutyl)ethylene 151.370, lecithin 10.500, NaCl 6.674, KCl 0.199, $CaCl_2.2H_2O$ 0.198, $NaHCO_3$ 1.359, $MgCl_2.6H_2O$ 0.037, $MgSO_4.7H_2O$ 0.200 g, and water for injection to 1 L was mixed with glucose 0.900, albumin 18,000 g, and 15 amino acids just before use and the soln. was oxygenated by bubbling O through the mixt. Focal cerebral ischemia produced by permanent left middle cerebral artery occlusion in cats was treated by ventriculo-cisternal perfusion with the soln.; significant redn. in cerebral infarct size was obsd.

L3 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:474399 CAPLUS
DOCUMENT NUMBER: 111:74399
TITLE: Total organ perfusion system
INVENTOR(S): Owen, Donald R.
PATENT ASSIGNEE(S): Tops Systems, Inc., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 8805261 | A1 | 19880728 | WO 1988-US103 | 19880115 |

RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

PRIORITY APPLN. INFO.: US 1987-4092 19870116

AB A total perfusion system for extracorporeal maintenance of an organ for transplantation uses an oxygenated **fluorocarbon** primary perfusion emulsion to feed nutrients to and remove waste products from the organ. The system maintains the appropriate temp., pressure, O concn., and pH of the **nutrient** fluid. The waste fluid is filtered and recycled. A surgically removed dog heart was perfused normothermically

ACCESSION NUMBER: 1975:153807 CAPLUS
DOCUMENT NUMBER: 82:153807
TITLE: Preservation and propagation of cells in vitro
INVENTOR(S): Delente, Jacques J. J.
PATENT ASSIGNEE(S): Monsanto Co.
SOURCE: Ger. Offen., 31 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2431450 | A1 | 19750123 | DE 1974-2431450 | 19740701 |
| US 3997396 | A | 19761214 | US 1973-376038 | 19730702 |
| CH 593339 | A | 19771130 | CH 1974-9117 | 19730702 |
| CA 1107211 | A1 | 19810818 | CA 1974-203742 | 19740628 |
| BE 817119 | A1 | 19750102 | BE 1974-146108 | 19740701 |
| NL 7408821 | A | 19750106 | NL 1974-8821 | 19740701 |
| JP 50036684 | A2 | 19750405 | JP 1974-74393 | 19740701 |
| ZA 7404208 | A | 19750625 | ZA 1974-4208 | 19740701 |
| AU 7470661 | A1 | 19760108 | AU 1974-70661 | 19740701 |
| GB 1448176 | A | 19760902 | GB 1974-29079 | 19740701 |
| IT 1015692 | A | 19770520 | IT 1974-24684 | 19740701 |

PRIORITY APPLN. INFO.: US 1973-376038 19730702

AB Human or animal cells were cultivated or maintained in an app. which provided aerobic conditions, or other gas environments if desired. The chamber of the app. was packed with long hollow fibers of a non-toxic material permeable to O2, such as polyolefins, polyionic polymers, cellulose or its derivs., polypeptides, **fluorocarbon** polymers, silicone rubber, etc. The cells adhered to 1 wall of the fibers and air contg. 3% CO2, or other gas, or a fluid supplying O2 was pumped in pulses over the other (e.g., through the fibers). Diffusion of O2 through the fiber wall furnished larger amts. of O2 than in the usual culture tubes or flasks. **Nutrient** medium or maintenance fluid was pumped through the app. and temp., pH, and pO2 controls were provided.

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1970:497088 CAPLUS
DOCUMENT NUMBER: 73:97088
TITLE: Perfusion of isolated liver with **fluorocarbon** emulsions
AUTHOR(S): Triner, Lubos; Verosky, M.; Habif, D. V.; Nahas, Gabriel G.
CORPORATE SOURCE: Coll. of Phys. and Surg., Columbia Univ., New York City, NY, USA
SOURCE: Federation Proceedings (1970), 29(5), 1778-81
CODEN: FEPRA7; ISSN: 0014-9446
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Expts. were done to test the suitability of **fluorocarbon** emulsions as replacements for erythrocytes in organ perfusions. Isolated rat livers kept for 2 hr in an emulsion of the **fluorocarbon** FX-80 with a **nutrient** medium produced glucose from alanine at a much greater rate than did livers kept in erythrocyte suspensions. The rate of lactate production and the rate of glycogen conversion to glucose

inner or contacting surfaces of the film(s) forming the chamber are deblocked to reduce their tendency to stick together. Deblocking is accomplished by dusting one or both of the contacting film surfaces with a finely granulated dry powder to prevent intimate contact of the smooth polymer films. Alternatively, the powder may be suspended in a suitable **fluorocarbon** propellant, such as Freon 113A, and sprayed on the desired film surface. The powder used should be sol. in the **nutrient** media and should not be toxic to the cells nor cause significant alteration of the growth characteristics of the cells. Thus used, the deblocking agent, after it has performed its deblocking function, simply dissolves in the **nutrient** when it is added.

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:137845 CAPLUS
DOCUMENT NUMBER: 102:137845
TITLE: Inhibiting the absorption of nutrients with perfluorodecalin
INVENTOR(S): Niazi, Sarfaraz
PATENT ASSIGNEE(S): Farmacon Research Corp., USA
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 132098 | A2 | 19850123 | EP 1984-304673 | 19840709 |
| EP 132098 | A3 | 19860129 | | |
| R: DE, FR, GB, IT | | | | |
| US 4530936 | A | 19850723 | US 1983-512193 | 19830708 |
| AU 8430397 | A1 | 19860911 | AU 1984-30397 | 19840709 |
| AU 570987 | B2 | 19880331 | | |

PRIORITY APPLN. INFO.: US 1983-512193 19830708
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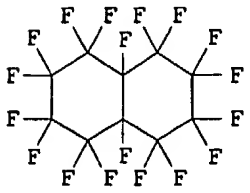

I

AB The absorption of nutrients in the intestine is inhibited or prevented by ingesting perfluorodecalin (I) [306-94-5] to form an impermeable film on a substantial part of the upper intestine wall. An emulsion for oral administration contains I 70, Pluronic F-68 4.7, egg yolk phospholipids 0.4, and flavoring, sweetener, color, and H2O to 100% (wt./vol.). The I coating is temporary, and a dose of 5 mL with or just after the ingestion of food is active long enough to alter intestine absorption. Rats fed a diet contg. 7% I for 21 days had significant lower wts. than controls.

with FC-43 emulsion (a com. perfluorocarbon artificial blood) for 1 h before and after a 24-h hypothermic electrolyte perfusion. The perfused heart exhibited excellent ventricular contractility under normothermic conditions after 24 h, and showed very little damage or edema.

L3 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1988:92085 CAPLUS
DOCUMENT NUMBER: 108:92085
TITLE: Physiological regulation of transepithelial impedance in the intestinal mucosa of rats and hamsters
AUTHOR(S): Pappenheimer, J. R.
CORPORATE SOURCE: Dep. Physiol. Biophys., Harvard Med. Sch., Boston, MA, 02115, USA
SOURCE: Journal of Membrane Biology (1987), 100(2), 137-48
CODEN: JMBBBO; ISSN: 0022-2631
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Isolated small intestinal segments from rats or hamsters were recirculated with balanced salt solns. contg. **fluorocarbon** emulsion. The lumen contained an axial Ag-AgCl electrode, and the serosal surface was surrounded by a cylindrical shell of Ag-AgCl. Transmural impedances were measured at frequencies of 0.01-30 kHz before and after removal of the mucosal epithelium. The resistance of intercellular junctions, RJ, the distributed resistance of the lateral spaces, RL, and the distributed membrane capacitance, CM, were computed from the relations between frequency and impedance. Activation of Na+-coupled solute transport by addn. of glucose (I), 3-O-Me glucose, alanine, or leucine caused 2-3-fold decreases of transepithelial impedance. Typical changes induced by I in hamster small intestine were RJ 30 .OMEGA. to 13 .OMEGA., Rl 23 .OMEGA. to 10 .OMEGA., and CM 8 .mu.F to 20 .mu.F (per cm length of segment). The half-maximal response occurred at a I concn. of 2-3 mM. The area per unit path length of the junctions (Ap/.DELTA.x = specific resistance .div. RJ) in I-activated epithelium was 3.7 cm in the hamster midgut and 6.8 cm in the rat. These values are close to the 4.3 cm estd. independently from coeffs. of solvent drag and hydrodynamic conductance in I-activated rat intestine in vivo. The transepithelial impedance response to Na+-coupled solute transport was reversibly dependent on O tension. Apparently, activation of Na+-coupled solute transport triggers contraction of circumferential actomyosin fibers in the terminal web of the microvillar cytoskeletal system, thereby pulling apart junctions and allowing paracellular absorption of nutrients by solvent drag as described previously.

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:634773 CAPLUS
DOCUMENT NUMBER: 107:234773
TITLE: Improved cell culture chamber
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: Research Disclosure (1987), 279, 433
CODEN: RSDSBB; ISSN: 0374-4353
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An improved cell culture chamber is described that is constructed of thin films of a suitable plastic that is heat sealable, permeable to oxygen and carbon dioxide for the cell line, relatively impermeable to liqs., nontoxic to the cells and preferably transparent. One or both of the

| | | | | |
|---|---|---|---|---|
| US 4981691 | A | 19910101 | US 1989-333658 | 19890405 |
| US 4378797 | A | 19830405 | US 1980-139886 | 19800414 |
| AT 16243 | E | 19851115 | AT 1981-102543 | 19810403 |
| US 4445500 | A | 19840501 | US 1982-428850 | 19820930 |
| US 4758431 | A | 19880719 | US 1982-428900 | 19820930 |
| US 4830849 | A | 19890516 | US 1988-183536 | 19880414 |

PRIORITY APPLN. INFO.:

| | |
|---|---|
| US 1980-139886 | 19800414 |
| US 1982-354346 | 19820303 |
| US 1982-428850 | 19820930 |
| US 1982-428900 | 19820930 |
| US 1984-582961 | 19840223 |
| US 1988-183536 | 19880414 |
| US 1988-238982 | 19880824 |
| EP 1981-102543 | 19810403 |
| US 1981-275116 | 19810618 |
| US 1981-275117 | 19810618 |
| US 1986-925727 | 19861030 |

AB An oxygenated **nutrient** soln. for circulation through cerebrospinal fluid pathways in treatment of hypoxic ischemic neurol. tissue comprises a **fluorocarbon** emulsified in a synthetic cerebrospinal aq. fluid contg. electrolytes, lecithin, and amino acids. The tissues treated with the oxygenated soln. exhibit a substantially improved ability to resist and/or repair damage which would otherwise result from vascular occlusion. Thus, an emulsion contg. bis(perfluorobutyl)ethylene 151.370, lecithin 10.500, NaCl 6.674, KCl 0.199, $CaCl_2.2H_2O$ 0.198, $NaHCO_3$ 1.359, $MgCl_2.6H_2O$ 0.037, $MgSO_4.7H_2O$ 0.200 g, and water for injection to 1 L was mixed with glucose 0.900, albumin 18,000 g, and 15 amino acids just before use and the soln. was oxygenated by bubbling O through the mixt. Focal cerebral ischemia produced by permanent left middle cerebral artery occlusion in cats was treated by ventriculo-cisternal perfusion with the soln.; significant redn. in cerebral infarct size was obsd.

L3 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:474399 CAPLUS
DOCUMENT NUMBER: 111:74399
TITLE: Total organ perfusion system
INVENTOR(S): Owen, Donald R.
PATENT ASSIGNEE(S): Tops Systems, Inc., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 8805261 | A1 | 19880728 | WO 1988-US103 | 19880115 |

RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

PRIORITY APPLN. INFO.: US 1987-4092 19870116

AB A total perfusion system for extracorporeal maintenance of an organ for transplantation uses an oxygenated **fluorocarbon** primary perfusion emulsion to feed nutrients to and remove waste products from the organ. The system maintains the appropriate temp., pressure, O concn., and pH of the **nutrient** fluid. The waste fluid is filtered and recycled. A surgically removed dog heart was perfused normothermically

4, Alfol-16RD 4, triethanolamine 0.75, butane-1,3-diol 3, xanthan gum 0.3, perfume qs, BHT 0.01 and water to 100% by wt.
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:398033 CAPLUS
DOCUMENT NUMBER: 127:49922
TITLE: Rhizosphere soil-water collection by immiscible displacement-centrifugation technique
AUTHOR(S): Gollany, H. T.; Bloom, P. R.; Schumacher, T. E.
CORPORATE SOURCE: Dep. of Soil, Water, and Climate, Univ. of Minnesota, St. Paul, MN, 55108, USA
SOURCE: Plant and Soil (1997), 188(1), 59-64
CODEN: PLSOA2; ISSN: 0032-079X
PUBLISHER: Kluwer
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Progress in detg. **nutrient** availability in the rhizosphere is restricted by a lack of reliable and convenient methods for rhizosphere soil-water collection. A modified centrifugation method with a **fluorocarbon** (Fluorinert FC-70) as an immiscible displacement liq. was developed. The objectives were to: (i) obtain an adequate soil-water vol. from a small rhizosphere sample within a reasonable time; (ii) collect rhizosphere soil-water at container capacity (.apprxeq.90% of field capacity) to det. sol. soil ions; and (iii) evaluate FC-70 as an extractant. The soil used was a Beadle clay loam (fine, montmorillonitic mesic Typic Argiustoll) with low and high levels of CaCO3 (5 and 204 g kg-1). Soil samples from the rhizosphere of 30-days-old sordan sorghum (Sorghum bicolor L.), sudan grass (Sorghum sudanense L.) hybrid seedlings were thin-sectioned at 1-, 2- and 3-mm from the root surface. The extn. parameters (sample size, vol. of extractant, relative centrifugal force and centrifugation time) were varied to det. optimal values. The authors obtained adequate amts. of aq. solns. from moist soil (.apprxeq.6 g) when mixed with 2 mL FC-70, packed into a filter unit, and centrifuged for 1 h at 14,500 .times. g. The displaced soil-water was analyzed by inductively coupled plasma spectrometry. The modified centrifugation technique with FC-70 offers a reliable, rapid, safe, and contamination-free method for obtaining unaltered soil-water from the rhizosphere, at a moisture content normally found in soil.

L3 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:435751 CAPLUS
DOCUMENT NUMBER: 115:35751
TITLE: Oxygenated **fluorocarbon nutrient** solution
INVENTOR(S): Osterholm, Jewell L.; Frazer, Glenn D.
PATENT ASSIGNEE(S): Thomas Jefferson University, USA
SOURCE: U.S., 9 pp. Cont.-in-part of U.S. 4,840,617.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1982:100292 CAPLUS
DOCUMENT NUMBER: 96:100292
TITLE: Cultivation of cells on liquid **fluorocarbon** substrates
AUTHOR(S): Arkhipov, V. V.
CORPORATE SOURCE: Inst. Biol. Fiz., Pushchino, USSR
SOURCE: Perftorirovannye Uglerody Biol. Med. (1980), 98-100. Editor(s): Beloyartsev, F. F. Akad. Nauk SSSR, Nauchn. Tsentr Biol. Issled.: Pushchino, USSR. CODEN: 47DSA2
DOCUMENT TYPE: Conference
LANGUAGE: Russian
AB Isolated neurons of Lymnaea stagnalis, Syrian hamster fibroblasts, and lymphoid cells were successfully grown in culture at a **nutrient** medium-organoperfluorocarbon (OPFC) interface. OPFC were low in toxicity, ensured the O supply to the cell, and increased the buffer capacity in the cell-liq. substrate contact region due to the soly. of CO2 in the OPFC. OPFC compds. differ in their adhesive properties. On highly adhesive OPFCs, BHK-21 fibroblasts grew as monolayers, on less adhesive OPFCs the cells formed aggregates, and on non-adhesive OPFCs the majority of cells neither spread nor multiplied, although they remained viable for >3 h. Spreading was also a function of seeding d. OPFC dispersions may permit high-d. cultivation of animal cells.

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1979:571577 CAPLUS
DOCUMENT NUMBER: 91:171577
TITLE: Means for stimulating microbial growth
INVENTOR(S): Hertl, William; Ramsey, William S.
PATENT ASSIGNEE(S): Corning Glass Works, USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4166006 | A | 19790828 | US 1977-850222 | 19771110 |

PRIORITY APPLN. INFO.: US 1977-850222 19771110
AB The addn. of a peroxide compd., preferably H2O2, to **fluorocarbon** and silicon oil greases or gels to enhance the growth of aerobic and facultative anaerobic microorganisms in liq. or solid **nutrient** media is described. E.g., a grease contg. 100 g silicone oil, 16 g powd. silica and 30% aq. H2O2 (3% by vol.) was deposited in .apprx.5 mL amts. in tubes and .apprx.1 mL of the same grease, but without H2O2 was placed on top of the grease samples in the tubes. Control samples contg. only silicone grease and no added grease were also prepd. Ten mL of **nutrient** broth contg. Escherichia coli were added to each tube and the resultant composite was incubated at 37.degree.. Optical d. of the grease + H2O2 + **nutrient** medium was 0.250 at 420 nm whereas that for oxygenated grease + **nutrient** medium was 0.150 and that for the control sample was 0.118.

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1975:153807 CAPLUS
DOCUMENT NUMBER: 82:153807
TITLE: Preservation and propagation of cells in vitro
INVENTOR(S): Delente, Jacques J. J.
PATENT ASSIGNEE(S): Monsanto Co.
SOURCE: Ger. Offen., 31 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2431450 | A1 | 19750123 | DE 1974-2431450 | 19740701 |
| US 3997396 | A | 19761214 | US 1973-376038 | 19730702 |
| CH 593339 | A | 19771130 | CH 1974-9117 | 19730702 |
| CA 1107211 | A1 | 19810818 | CA 1974-203742 | 19740628 |
| BE 817119 | A1 | 19750102 | BE 1974-146108 | 19740701 |
| NL 7408821 | A | 19750106 | NL 1974-8821 | 19740701 |
| JP 50036684 | A2 | 19750405 | JP 1974-74393 | 19740701 |
| ZA 7404208 | A | 19750625 | ZA 1974-4208 | 19740701 |
| AU 7470661 | A1 | 19760108 | AU 1974-70661 | 19740701 |
| GB 1448176 | A | 19760902 | GB 1974-29079 | 19740701 |
| IT 1015692 | A | 19770520 | IT 1974-24684 | 19740701 |

PRIORITY APPLN. INFO.: US 1973-376038 19730702

AB Human or animal cells were cultivated or maintained in an app. which provided aerobic conditions, or other gas environments if desired. The chamber of the app. was packed with long hollow fibers of a non-toxic material permeable to O2, such as polyolefins, polyionic polymers, cellulose or its derivs., polypeptides, **fluorocarbon** polymers, silicone rubber, etc. The cells adhered to 1 wall of the fibers and air contg. 3% CO2, or other gas, or a fluid supplying O2 was pumped in pulses over the other (e.g., through the fibers). Diffusion of O2 through the fiber wall furnished larger amts. of O2 than in the usual culture tubes or flasks. **Nutrient** medium or maintenance fluid was pumped through the app. and temp., pH, and pO2 controls were provided.

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1970:497088 CAPLUS
DOCUMENT NUMBER: 73:97088
TITLE: Perfusion of isolated liver with **fluorocarbon** emulsions
AUTHOR(S): Triner, Lubos; Verosky, M.; Habif, D. V.; Nahas, Gabriel G.
CORPORATE SOURCE: Coll. of Phys. and Surg., Columbia Univ., New York City, NY, USA
SOURCE: Federation Proceedings (1970), 29(5), 1778-81
CODEN: FEPRA7; ISSN: 0014-9446
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Expts. were done to test the suitability of **fluorocarbon** emulsions as replacements for erythrocytes in organ perfusions. Isolated rat livers kept for 2 hr in an emulsion of the **fluorocarbon** FX-80 with a **nutrient** medium produced glucose from alanine at a much greater rate than did livers kept in erythrocyte suspensions. The rate of lactate production and the rate of glycogen conversion to glucose

were the same in both groups.

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LOGOFF? (Y)/N/HOLD:H
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    33.68      33.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -7.81      -7.81

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| | ENTRY | SESSION |
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FILE COVERS 1907 - 29 Nov 2003 VOL 139 ISS 23
FILE LAST UPDATED: 28 Nov 2003 (20031128/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s fluorocarbon
L1       12807 FLUOROCARBON

=> s nutrient
L2       95991 NUTRIENT

=> s l1 ans l2
MISSING OPERATOR L1 ANS
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l1 and l2
L3          12 L1 AND L2

=> d l3 -12 ibib hitstr abs

L3   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:        2003:241986  CAPLUS
DOCUMENT NUMBER:         138:243385
TITLE:                   Kits and compositions containing amino acids for
                         intracranial perfusions
INVENTOR(S):             Hesson, David P.; Frazer, Glenn David; Pelura, Timothy
                         J.
PATENT ASSIGNEE(S):      Neuron Therapeutics, Inc., USA
SOURCE:                  U.S. Pat. Appl. Publ., 16 pp.
                         CODEN: USXXCO
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:
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| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 2003060421 | A1 | 20030327 | US 2001-908985 | 20010719 |

PRIORITY APPLN. INFO.: US 2001-908985 20010719

AB A kit is provided contg. pre-measured amts. of components to form a **fluorocarbon nutrient** emulsion capable of carrying oxygen to living tissues. The kit comprises constituent solns., emulsions or particle compns., which are the constituent compns. contg. pre-measured amts. of components for making the **fluorocarbon nutrient** emulsion. The constituent compns. contain polyfluorinated, oxygen-carrying compd., an emulsifying agent effective to emulsify the polymer; a **nutrient**-providing effective amts. of carbohydrates, amino acids or amino acid precursors, an oncotic agent in conjunction with the other components of the soln., and sufficient salts and buffering agents to provide a physiol. osmotic pressure and appropriate concns. of potassium and sodium ions. The constituent compns. are selected to allow for sufficient stability of the components to allow for com. marketing of the kit. The constituent compns. are adapted to provide a **fluorocarbon nutrient** emulsion with the following component amts.: poly-fluorinated, oxygen-carrying compd. 9.5-10-5, phospholipid 11.5 mg/mL, albumin, 1.67 g/dL, .alpha.-ketoglutaric acid 25 .mu.g/mL, amino acids composed of L-isoleucine + L-leucine 17.5, L-valine 16.6, L-alanine 28.6, L-serine 24.6, L-histidine 10.3, L-methionine 2.1, L-phenylalanine + L-Lysine 35.3, L-threonine + L-arginine 48.3 and L-tyrosine 7.9 .mu.g/mL, Na+ 147, K+ 2.9, Cl- 130, Ca+2 1.15, Mg+2 1.12 1.12 mM, and dextrose 94 mg/dL.

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:12216 CAPLUS
DOCUMENT NUMBER: 130:71307
TITLE: Cosmetic skin or hair care compositions containing perfluorocarbons infused with carbon dioxide
INVENTOR(S): Penska, Christine; Santhanam, Uma; Habif, Stephan
PATENT ASSIGNEE(S): Chesebrough-Pond's USA Co., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5851544 | A | 19981222 | US 1997-993294 | 19971218 |
| JP 11228382 | A2 | 19990824 | JP 1998-342956 | 19981202 |
| EP 938890 | A2 | 19990901 | EP 1998-309869 | 19981202 |
| EP 938890 | A3 | 20010704 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| ZA 9811274 | A | 20000609 | ZA 1998-11274 | 19981209 |
| CN 1231173 | A | 19991013 | CN 1998-126971 | 19981218 |

PRIORITY APPLN. INFO.: US 1997-993294 A 19971218

AB Cosmetic skin or hair care compns. contg. a liq., inert, hydrophobic **fluorocarbon** infused with carbon dioxide. The compns. increase blood flow to the skin, thus increasing endogenous oxygen and **nutrient** delivery to the skin. An oil-in-water cream contained perfluorodecalin infused with carbon dioxide 0.15, mineral oil 4, Brij-56